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## Patent Abstracts of Japan

PUBLICATION NUMBER : 2002304993  
PUBLICATION DATE : 18-10-02

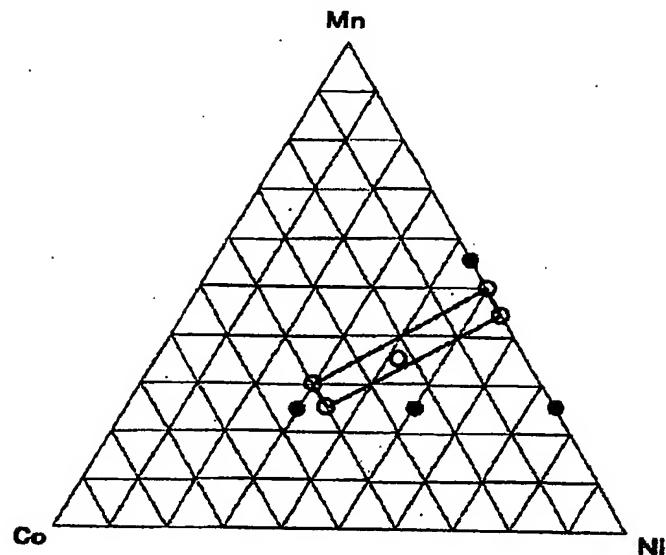
APPLICATION DATE : 04-04-01  
APPLICATION NUMBER : 2001106213

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INT.CL. : H01M 4/58 C01G 53/00 H01M 10/40

TITLE : POSITIVE ELECTRODE ACTIVE MATERIAL, ITS MANUFACTURING METHOD, AND SECONDARY BATTERY USING THE SAME



ABSTRACT : PROBLEM TO BE SOLVED: To provide a manufacturing method of a positive electrode active material for a secondary battery having high energy density and excellent repetitive charge-discharge performance and to provide a secondary battery using it.

SOLUTION: This secondary battery uses a positive electrode active material  $\text{Li}_x\text{Mn}_a\text{Ni}_b\text{Co}_c\text{O}_2$  obtained by heat-treating a mixture comprising a trivalent transition metal compound in a temperature range of 950-1100°C, (where, a, b and c should be positioned in a range shown by a region surrounded by lines connecting four points comprising a point A (a, b, c)=(0.5, 0.5, 0), a point B (0.45, 0.55, 0), a point C (0.25, 0.35, 0.4) and a point D (0.3, 0.3, 0.4) on a ternary state diagram expressing the relationship thereof, and X should be  $0.95 \leq x/(a+b+c) \leq 1.05$ ).

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